

CLAIMS

What is claimed is:

1. A drill string for use in a wellbore operation comprising:

an elongated tubular member having a first end, a second end, an outer surface, and an inner surface;

an aperture radially formed through said tubular member thereby providing communication between said outer surface and said inner surface; and

a line cutting apparatus.

2. The drill string of claim 1 further comprising a line disposed through said aperture.

3. The drill string of claim 1 further comprising a slip in securing contact with said line.

4. The drill string of claim 1 wherein said line cutter is selected from the group consisting of a hydraulically actuated line cutter, a mechanically actuated cutter, and an electrically actuated cutter.

5. A line cutting assembly comprising:

an elongated housing having an outer surface and an inner surface;

a rod disposed in said housing;

a first piston slideably attached to said rod;

a cutting blade fixed on said rod wherein axial displacement of said first piston along said rod urges said cutting blade toward the inner surface of said housing.

6. The line cutting assembly of claim 5 further comprising a second piston slideably attached to said rod.

- 1 7. The line cutting assembly of claim 6 further comprising a gap formable between said
2 first piston and said second piston, said gap when formed capable of providing a fluid
3 flow passage between said first piston and said second piston.
- 4 8. The line cutting assembly of claim 5 further comprising a shoulder disposed on said
5 rod.
- 6 9. The line cutting assembly of claim 8, wherein said first and second piston are capable
7 of slideably traveling along said rod proximate to one another and are separable upon
8 contact with said shoulder.
- 9 10. The line cutting assembly of claim 5, said rod comprises a first section and a second
10 section, wherein the diameter of said second section is greater than the diameter of said
11 first section thereby providing the capability of increasing the differential pressure across
12 said first piston as the first piston passes from said first section to said second section.
- 13 11. The line cutting assembly of claim 5 further comprising a line disposed within said
14 line cutting assembly.
- 15 12. The line cutting assembly of claim 11 further comprising a slip in securing contact
16 with said line.
- 17 13. The line cutting assembly of claim 5 further comprising a fishing neck.
- 18 14. The line cutting assembly of claim 5 further comprising a hanging plate.
- 19 15. The line cutting assembly of claim 5 further comprising an aperture radially formed
20 through said elongated housing thereby providing communication between said outer
21 surface and said inner surface.
- 22 16. The line cutting assembly of claim 5, wherein said line cutting assembly is disposed
23 within a pipe string.

- 1 17. A method of performing wellbore operations comprising:
- 2 inserting a drill string within a wellbore;
- 3 connecting a downhole tool to a drill string;
- 4 connecting a wireline to the downhole tool and threading it through the drill string;
- 5 integrating a side entry sub to a section of the drill string, wherein said side entry sub
- 6 comprises a housing having a first end, a second end, an outer surface, an inner
- 7 surface, and an aperture radially formed through said tubular member thereby
- 8 providing communication between said outer surface and said inner surface;
- 9 threading the wireline through said aperture; and
- 10 providing a cutting assembly within said drill string proximate to said side entry sub,
- 11 where said cutting assembly comprises a rod, a first piston slideably attached to said
- 12 rod, and a cutting blade fixed on said rod wherein axial displacement of said first
- 13 piston along said rod urges said cutting blade toward the surface of said housing
- 14 proximate to the wireline.
- 15 18. The method of performing wellbore operations of claim 17 further comprising
- 16 activating said cutting assembly thereby severing the wireline.
- 17 19. The method of performing wellbore operations of claim 18 further comprising
- 18 removing said cutting assembly from the wellbore.